

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE REPLACEMENT OF EXISTING PRESENCE LOOP DETECTORS WITH VIDEO DETECTION CAMERAS AND THE REPLACEMENT OF EXISTING ADVANCE LOOP DETECTORS WITH MICRO-LOOP PROBES AT THE INTERSECTION OF MD 5 BUSINESS (LEONARDTOWN ROAD) AND PIKA DRIVE IN CHARLES COUNTY. MD 5 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE NORTHBOUND MOVEMENT OF MD 5 BUSINESS. THE MD 5 BUSINESS THROUGH MOVEMENTS OPERATE CONCURRENTLY.

THE SIGNAL WILL CONTINUE TO BE INTERCONNECTED TO THE MD 5 BUSINESS/WASHINGTON ROAD INTERSECTION TO THE NORTH AND THE MD 5 BUSINESS/POST OFFICE ROAD INTERSECTIONS TO THE SOUTH.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET/CONTROLLER AND PHASING WILL BE UTILIZED.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO DETECTION CAMERAS.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE No.	QUANTITY	DESCRIPTION
900000-EA	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT (1 TO 4 CAMERAS)
900000-EA	1 EA	DETECTOR RACK RETROFIT
900000-EA	1 EA	DETECTOR RACK POWER SUPPLY
963010	1 EA	FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE No.	QUANTITY	DESCRIPTION
801706	10.5 SF	REMOVE SIGNS FROM EXISTING OVERHEAD STRUCTURE
810550	4 EA	MICROLOOP PROBE, 500 FOOT LEAD-IN CABLE
816001	2 EA	VIDEO DETECTION CAMERA
816005	2 EA	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
862102	100 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

CONTACTS FOR DISTRICT 5:

KIMBERLY TRAN  
ASSISTANT DISTRICT ENGINEER,  
TRAFFIC  
410-841-1019

CHUCK E. GEORGE  
ASSISTANT DISTRICT ENGINEER,  
MAINTENANCE  
410-841-1013

JOHN S. MAYES  
UTILITIES ENGINEER  
410-841-1039

CONTACTS FOR OFFICE OF  
TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
410-787-7630

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATIONS  
410-787-7650

MR. EUGENE BAILEY  
CHIEF, SIGN OPERATIONS  
410-787-7676

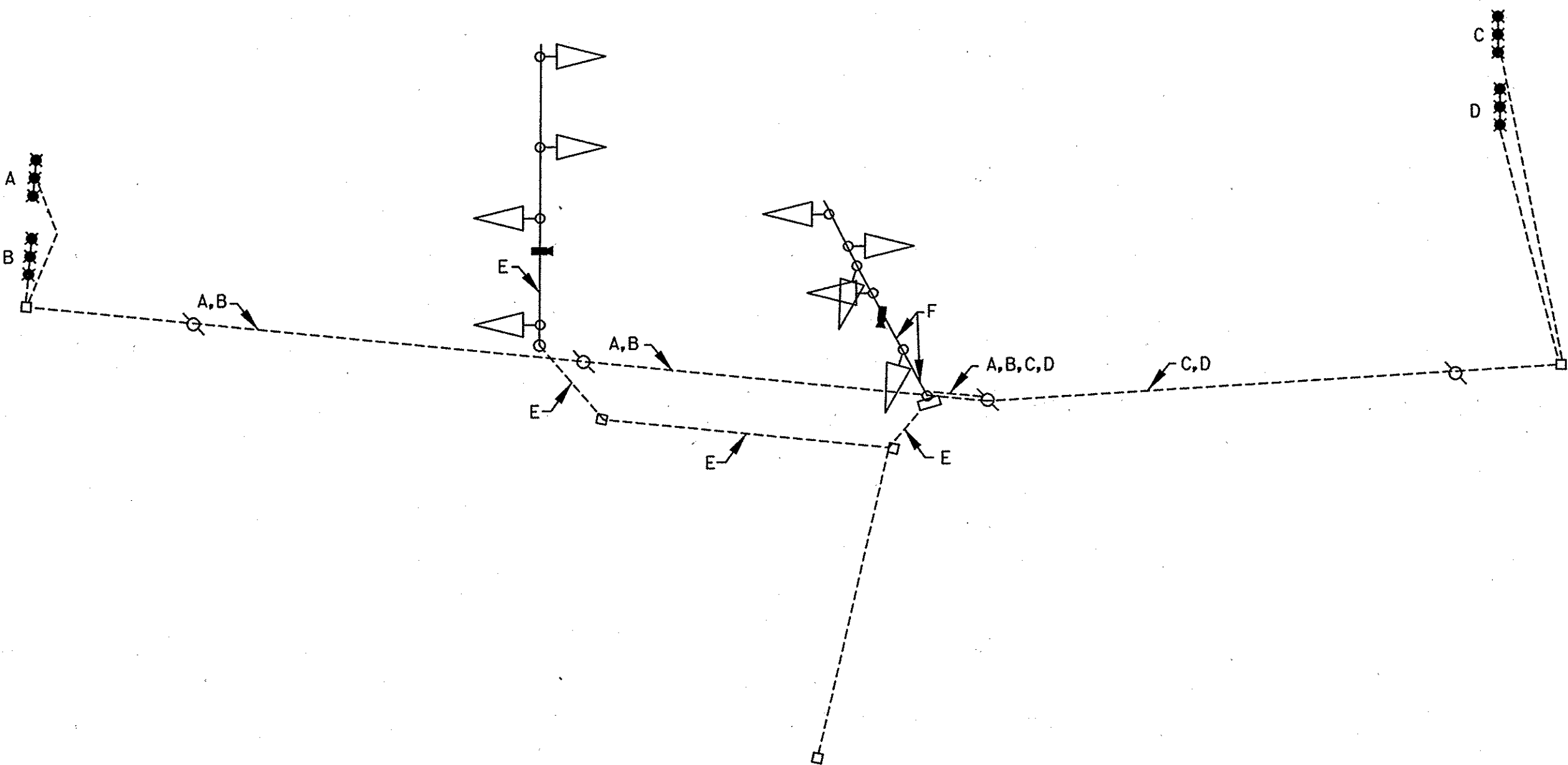
MR. MIKE STOCKER  
SIGNAL SHOP WAREHOUSE  
410-787-7696

EQUIPMENT LIST "C"

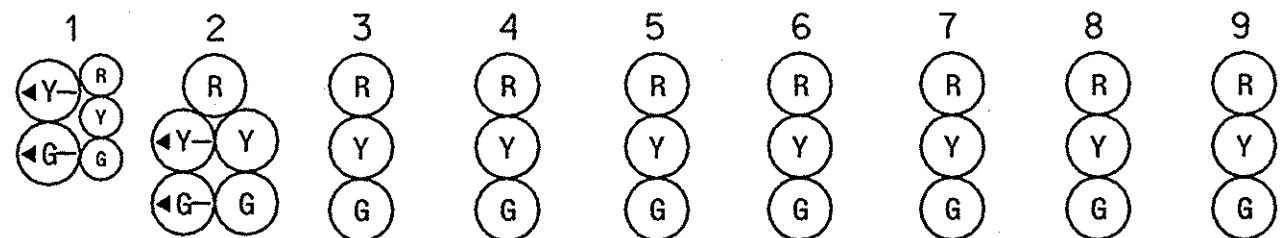
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART



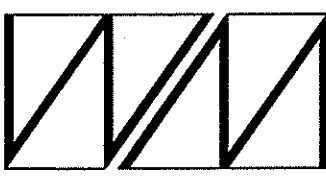
PHASE 2 + 5	← GG	← GG	G	R	R	R	R	R	R
PHASE 2 + 5 MAY CHANGE TO PHASE 2 + 6									
PHASE 2 + 6	G	G	G	G	G	G	G	R	R
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 5 BUSINESS AND PIKA DRIVE  
GENERAL INFORMATION SHEET

REVISION B CONSULTANT



WALLACE, MONTGOMERY  
& ASSOCIATES, LLP  
CIVIL AND STRUCTURAL ENGINEERS  
110 West Road  
Suite 300  
Towson, Maryland 21204

SCALE 1" = 20' DATE 04-27-89 CONTRACT NO. CH-573-459-585

DESIGNED BY M. ELAAQUR (FOR JMT) COUNTY CHARLES  
DRAWN BY T. SPECA (FOR JMT) LOGMILE 08000512.01  
CHECKED BY EMM / DJD T.I.M.S. NO.  
F.A.P. NO. TOD NO.

DRAWING NO. 2363B SHEET NO. 4 OF 10